

MATH 119: QUIZ 1 FORMULA SHEET

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These will be given to you on Quiz 1. You will need to understand them, though!

$$\mu = \frac{\sum x}{N}$$

$$\bar{x} = \frac{\sum x}{n}$$

$$\sigma^2 = \frac{\sum (x - \mu)^2}{N}$$

$$s^2 = \frac{\sum (x - \bar{x})^2}{n - 1}$$

$$\sigma = \sqrt{\frac{\sum (x - \mu)^2}{N}}$$

$$s = \sqrt{\frac{\sum (x - \bar{x})^2}{n - 1}}$$

$$\text{Median Position Number} = \frac{N + 1}{2}, \text{ or } \frac{n + 1}{2}$$

$$\text{Midrange} = \frac{\text{Min} + \text{Max}}{2}$$

$$\text{From a Frequency Table: Estimated Mean} = \frac{\text{Estimated Sum}}{N}, \text{ or } \frac{\sum f \cdot x}{\sum f}$$

$$\text{Weighted Mean} = \frac{\sum w \cdot x}{\sum w}$$

$$\text{Range} = \text{Max} - \text{Min}$$

$$z = \frac{x - \mu}{\sigma}, \text{ or } z = \frac{x - \bar{x}}{s}$$

$$\text{IQR} = Q_3 - Q_1$$